

WHAT IS CLAIMED IS:

1. An apparatus for spraying a material, comprising:
 - a container holding said material;
 - a sprayer configured to direct said material onto a surface;
 - a conduit connected between said container and said sprayer such that there is material communication between said sprayer and said container; and
 - an air control valve attached to the sprayer to release air from within the sprayer.
2. The apparatus according to claim 1 further comprising an air chamber connected to and in fluid communication with said sprayer.
3. The apparatus according to claim 1 wherein said sprayer comprises:
 - a generally cylindrically shaped tube having opposing first and second ends;
 - a piston rod inserted into said first end of said tube, said piston having opposed first and second terminuses, said first terminus being exterior to said tube, said second terminus located within said tube;
 - a handle on said second terminus;
 - a seal on said first terminus;
 - a transition connected to said second end of said tube, through which passes said conduit;
 - a nozzle support connected to said transition, through which passes said conduit;
 - a nozzle connected to said nozzle support, through which passes said conduit; and
 - an adjustable orifice through which passes said material.

4. The apparatus according to claim 3, wherein said generally cylindrically shaped tube includes an enlarged section along a portion of its length.
5. The apparatus according to claim 1 wherein said valve comprises:
 - a generally cylindrically shaped body having a top and bottom;
 - a spring mounted within said body at said bottom;
 - an elongated, generally cylindrically shaped insert fitted within said body and abutting and compressing said spring, said insert having a widened portion where said insert abuts said spring; and
 - a valve cap mounted on said top of said valve body and having a central opening sized to slide over said insert.
6. The apparatus according to claim 2 wherein said sprayer comprises:
 - a generally cylindrically shaped tube having opposing first and second ends;
 - a piston rod inserted into said first end of said tube, said piston having opposed first and second terminuses, said first terminus being exterior to said tube, said second terminus located within said cylinder;
 - a handle on said second terminus;
 - a seal on said first terminus;
 - a transition connected to said second end of said tube, through which passes said conduit;
 - a nozzle support connected to said transition, through which passes said conduit;
 - a nozzle connected to said nozzle support, through which passes said conduit; and
 - an adjustable orifice through which passes said material.
7. The apparatus according to claim 6, wherein said generally cylindrically shaped tube includes an enlarged section along a portion of its length.

8. The apparatus according to claim 2 wherein said valve comprises:
 - a generally cylindrically shaped body having a top and bottom;
 - a spring mounted within said body at said bottom;
 - an elongated, generally cylindrically shaped insert fitted within said body and abutting and compressing said spring, said insert having a widened portion where said insert abuts said spring; and
 - a valve cap mounted on said top of said valve body having a central opening sized to slide over said insert.
9. The apparatus according to claim 1 further having an attachment for a source of outside air.
10. The apparatus according to claim 2 further having an attachment for a source of outside air.
11. The apparatus according to claim 3 wherein said valve comprises:
 - a generally cylindrically shaped body having a top and bottom;
 - a spring mounted within said body at said bottom;
 - an elongated, generally cylindrically shaped insert fitted within said body and abutting and compressing said spring, said insert having a widened portion where said insert abuts said spring; and
 - a valve cap mounted on said top of said valve body having a central opening sized to slide over said insert.
12. The apparatus according to claim 2 wherein said air control valve is attached to said air chamber.
13. An apparatus for spraying a material, comprising:
 - a container holding said material;
 - a sprayer configured to direct said material onto a surface;

a conduit connected between said container and said sprayer such that there is material communication between said sprayer and said container; and
an air volume chamber connected to and in fluid communication with said sprayer.

14. The apparatus according to claim 13 wherein said sprayer comprises:
a generally cylindrically shaped tube having opposing first and second ends;

a piston rod inserted into said first end of said tube, said piston having opposed first and second terminuses, said first terminus being exterior to said tube, said second terminus located within said tube;

a handle on said second terminus;

a seal on said first terminus;

a transition connected to said second end of said tube, through which passes said conduit;

a nozzle support connected to said transition, through which passes said conduit;

a nozzle connected to said nozzle support, through which passes said conduit; and

an adjustable orifice through which passes said material.

15. The apparatus according to claim 14, wherein said generally cylindrically shaped tube includes an enlarged section along a portion of its length

16. An apparatus in accordance with claim 13 further having an attachment for outside air.

17. An improved hand-held sprayer of the type having an air cylinder, a piston, a material container, an adjustable outlet, and a delivery tube conducting said material from said container to said outlet when pressure is applied by operation of the piston, said improvement comprising:

adding an air volume chamber in fluid communication with said cylinder.

18. An improved hand-held sprayer of the type having an air cylinder, a piston, a material container, an adjustable outlet, and a delivery tube conducting said material from said container to said outlet when pressure is applied by operation of the piston, said improvement comprising:
attaching an air control valve to an opening in said cylinder.